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APPENDIX B

**MVA, INC. LABORATORY REPORT
FOR SURFACE DUST SAMPLES**

Report of Results: MVA 6423

Arizona Building Dust

Prepared for:

**Compass Environmental Inc.
1751 McCollum Parkway
Kennesaw, GA 30144**

Respectfully Submitted by:


**James R. Millette, Ph.D.
Executive Director
MVA Scientific Consultants**

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Report of Results: MVA 6423

Arizona Building Dust

INTRODUCTION

This report contains the results of analytical work performed on dust microvac samples received at MVA Scientific Consultants' laboratory on 23 August 2005 via Federal Express. It was requested that MVA Scientific Consultants perform analysis by transmission electron microscopy (TEM) using ASTM D5755 for asbestos. The analyses were performed during the period 23 August through 25 September 2005.

Table 1. Sample Information

Sample #	MVA ID#	Description	Surface Area Samples
Dust 01	Q1418	Civic Plaza, Exhibit Hall B, Column enclosure B4, door ledge	100cm ²
Dust 02	Q1419	Civic Plaza, Exhibit Hall B, Column enclosure B5, door ledge	100cm ²
Dust 03	Q1420	Civic Plaza, Exhibit Hall B, Column enclosure A3, door ledge	100cm ²
Dust 04	Q1421	Blank	100cm ²
Dust 05	Q1422	AZ Dept. of Corrections, 4th floor rm. 4309, light fixture	100cm ²
Dust 06	Q1423	AZ Dept. of Corrections, 3rd floor rm. 3406, light fixture	100cm ²
Dust 07	Q1424	AZ Dept. of Corrections, 3rd floor rm. 3111, light fixture	100cm ²
Dust 08	Q1425	AZ Dept. of Corrections, 2nd floor rm. 2401, light fixture	100cm ²
Dust 09	Q1426	AZ Dept. of Corrections, 2nd floor rm. 2304, light fixture	100cm ²
Dust 10	Q1427	AZ Dept. of Corrections, 1st floor rm. 1305, new light fixture	100cm ²
Dust 11	Q1428	Veterans Memorial Coliseum, Upper Concourse above portal 10	100cm ²
Dust 12	Q1429	Veterans Memorial Coliseum, Upper Concourse above portal 15	100cm ²
Dust 13	Q1430	Veterans Memorial Coliseum, Upper Concourse above portal 6	100cm ²
Dust 14	Q1431	Veterans Memorial Coliseum, Lower Concourse, SE	100cm ²
Dust 15	Q1432	Veterans Memorial Coliseum, Lower Concourse, west side	100cm ²
Dust 16	Q1433	Veterans Memorial Coliseum, Lower Concourse, NE side	100cm ²
Dust 17	Q1434	Blank	100cm ²
Dust 20	Q1435	East Court Bldg., Suite 914, Judges chambers	100cm ²
Dust 21	Q1436	East Court Bldg., Suite 812, Judges chambers	100cm ²
Dust 22	Q1437	East Court Bldg., 7th Floor, elevator lobby, top of light fixture	100cm ²
Dust 23	Q1438	East Court Bldg., Suite 611, top of supply air diffuser	100cm ²
Dust 24	Q1439	East Court Bldg., 6th Floor elevator lobby, top of light fixture	100cm ²
Dust 25	Q1440	East Court Bldg., 5th floor, elevator lobby, outside ladies room	100cm ²
Dust 26	Q1441	West Court Bldg., 4th floor, elevator lobby, top of light fixture	100cm ²
Dust 27	Q1442	West Court Bldg., 4th floor suite 400, center of open work area	100cm ²

Sample #	MVA ID#	Description	Surface Area Samples
Dust 28	Q1443	West Court Bldg., 3rd floor, break room, top of light fixture	100cm ²
Dust 29	Q1444	West Court Bldg., 3rd floor, open work area, top of light fixture	100cm ²
Dust 30	Q1445	West Court Bldg., 2nd floor, pretrial services reception	100cm ²
Dust 31	Q1446	Blank	100cm ²
Dust 32	Q1447	Blank	100cm ²
Dust 40	Q1448	Tucson Civic, 40 ft. from west end of meeting rm. Hallway	100cm ²
Dust 41	Q1449	Tucson Civic, Mohave Rm. West side at center, tall ceiling	100cm ²
Dust 42	Q1450	Tucson Civic, Graham Rm. Tall ceiling	100cm ²
Dust 43	Q1451	Tucson Civic, Meeting Rm. Lobby, NE quadrant	100cm ²
Dust 44	Q1452	Tucson Civic, Rm. 362-1, south of hallway, top of light fixture	100cm ²
Dust 45	Q1453	Tucson Civic, Attic, NE area, top of metal air duct	100cm ²
Dust 46	Q1454	Tucson Civic, Attic, SE area, top of metal air duct	100cm ²
Dust 47	Q1455	Tucson Civic, Attic, north central, top of metal air duct	100cm ²
Dust 48	Q1456	Tucson Civic, Attic, NW area, top of metal air duct	100cm ²
Dust 49	Q1457	Tucson, Civic, Attic, SW area, top of metal air duct	100cm ²
Dust 50	Q1458	Blank	100cm ²
Dust 51	Q1459	General Services Bldg, NE rm., top of pendant light fixture, east	100cm ²
Dust 52	Q1460	General Services Bldg, NE rm., top of pendant light fixture, center	100cm ²
Dust 53	Q1461	General Services Bldg, NE rm., top of pendant light fixture, west	100cm ²

ANALYTICAL METHODS

The microvacuum dust samples were prepared for TEM analysis following the procedure described in the ASTM Standard Method D5755-02: Microvacuum Sampling and Indirect Analysis of Dust by Transmission Electron Microscopy of Asbestos Structure Number Surface Loading. Analyses were performed using a Philips CM120, 120kV transmission electron microscope equipped with an IXRF energy dispersive x-ray spectroscopy (EDS) analysis system and a Philips EM 420, 120kv transmission electron microscope equipped with an Oxford Inca EDS x-ray analysis system.

RESULTS

Table 2. Sample Results

Sample ID	MVA#	Asbestos Loading (s/cm ²)	Single Fiber Analytical Sensitivity (s/cm ²)	Reported Result (s/cm ²)
Dust 01	Q1418	4,553,000	157,000	4,600,000
Dust 02	Q1419	78,500	15,700	78,000
Dust 03	Q1420	565,200	31,400	570,000
Dust 04	Q1421	0	314*	NAD
Dust 05	Q1422	12,560	1,570	13,000
Dust 06	Q1423	847,800	31,400	850,000
Dust 07	Q1424	94,200	15,700	94,000

Sample ID	MVA ID #	Asbestos Loading (s/cm ²)	Single Fiber Analytical Sensitivity (s/cm ²)	Reported Result (s/cm ²)
Dust 08	Q1425	109,900	15,700	110,000
Dust 09	Q1426	125,600	15,700	130,000
Dust 10	Q1427	7,850	1,570	7,800
Dust 11	Q1428	78,500	15,700	78,000
Dust 12	Q1429	172,700	15,700	170,000
Dust 13	Q1430	15,700	15,700	<47,000**
Dust 14	Q1431	15,700	15,700	<47,000**
Dust 15	Q1432	47,100	15,700	47,000
Dust 16	Q1433	15,700	15,700	<47,000**
Dust 17	Q1434	0	314*	NAD
Dust 20	Q1435	549,500	15,700	550,000
Dust 21	Q1436	1,884	314	1,900
Dust 22	Q1437	2,669,000	157,000	2,700,000
Dust 23	Q1438	54,950	1,570	55,000
Dust 24	Q1439	580,900	15,700	580,000
Dust 25	Q1440	2,041,000	157,000	2,000,000
Dust 26	Q1441	0	1,570	<4,700**
Dust 27	Q1442	2,669,000	157,000	2,670,000
Dust 28	Q1443	6,280	1,570	6,300
Dust 29	Q1444	0	1,570	<4,700**
Dust 30	Q1445	26,690	1,570	27,000
Dust 31	Q1446	0	314*	NAD
Dust 32	Q1447	0	314*	NAD
Dust 40	Q1448	1,884,000	157,000	1,900,000
Dust 41	Q1449	109,900	15,700	110,000
Dust 42	Q1450	78,500	15,700	79,000
Dust 43	Q1451	235,500	15,700	240,000
Dust 44	Q1452	15,700	15,700	<47,000**
Dust 45	Q1453	2,355,000	157,000	2,400,000
Dust 46	Q1454	2,041,000	157,000	2,000,000
Dust 47	Q1455	17,270,000	1,570,000	17,000,000
Dust 48	Q1456	3,140,000	157,000	3,100,000
Dust 49	Q1457	706,500	15,700	710,000
Dust 50	Q1458	0	314*	NAD
Dust 51	Q1459	47,100	15,700	47,000
Dust 52	Q1460	94,200	15,700	94,000
Dust 53	Q1461	141,300	15,700	140,000

*The equivalent analytical sensitivity for a blank sample is determined by assuming a 100 square centimeter collection area.

NAD = No Asbestos Detected in blank

**less than 3.00 times the analytical sensitivity. Detection Limit determined using ASTM D6220